North America Power Transformer Market, Opportunity, Growth Drivers, Industry Trend Analysis and Forecast, 2024-2032

Market Report | 2024-08-06 | 90 pages | Global Market Insights

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Report description:

North American power transformer market will exhibit a 4.8% CAGR during 2024-2032, driven by the rising demand for electricity and the expansion of power grid infrastructure. As the population grows and urbanization increases, the need for reliable electricity transmission systems becomes crucial. The shift to renewable energy sources, such as wind and solar, requires advanced transformers to manage variable loads and maintain grid stability. Government initiatives and regulations aimed at reducing carbon emissions further encourage the adoption of energy-efficient transformers.

Technological advancements in transformer design also drive market growth. For instance, the U.S. Department of Energy's regulations on transformer efficiency have pushed for the development of more efficient models. Smart transformers with monitoring and diagnostic systems enhance operational efficiency and reduce maintenance costs. These transformers adapt to changing grid conditions in real-time, improving grid reliability. Additionally, significant investments in upgrading North America's aging infrastructure will bolster the industry growth. According to the American Society of Civil Engineers, the U.S. needs to invest $4.5 trillion by 2025 to improve its infrastructure, including power transformers.

North America power transformer industry is classified based on core, winding, cooling, insulation, rating, mounting, application, and region.

The berry core segment is gaining traction due to its superior efficiency and compact design. These transformers are designed with a circular core structure that reduces core losses and enhances energy efficiency, which is increasingly important as utilities strive to minimize operational costs and meet stringent energy regulations. Their compact size also allows for easier installation in space-constrained environments where space is at a premium. Additionally, the robust construction of berry core transformers ensures reliable performance and longevity, further driving their adoption.

The air insulation segment will hold a notable market share by 2032, due to its cost-effectiveness and reliability in various applications. Air-insulated transformers are favored for their simplicity in design, ease of maintenance, and lower environmental impact compared to oil-insulated alternatives. These transformers are particularly suitable for medium to low voltage applications where space constraints and fire safety considerations are critical. Additionally, with the increasing emphasis on sustainable and eco-friendly solutions in power infrastructure, air-insulated transformers are becoming a preferred choice.

Canada power transformer market size will expand at a notable pace through 2032, attributed to ongoing investments in modernizing its power grid and the growing adoption of renewable energy sources. With an increasing focus on sustainability and reducing GHG emissions, Canada is integrating more wind, solar, and hydroelectric power into its energy mix. Additionally, the aging infrastructure in many parts of the country is being upgraded, creating demand for new, more efficient transformers that can meet the requirements of a modernized grid. This, coupled with government incentives and regulatory frameworks supporting energy efficiency, is bolstering the industry growth.

Table of Contents:

12.13 Schneider Electric
12.14 Toshiba Energy Systems and Solutions Corporation
12.15 WEG

North America Power Transformer Market, Opportunity, Growth Drivers, Industry Trend Analysis and Forecast, 2024-2032

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